

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,997	07/12/2002	Neil Fraser Fairweather	078883-0143	2604
75	590 04/13/2005		EXAM	INER
Michele M Sirnkin			FORD, VANESSA L	
Foley & Lardne				
Washington Harbour Suite 500			. ART UNIT	PAPER NUMBER
3000 K Street NW			1645	
Washington, DC 20007-5143			DATE MAILED: 04/13/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/018,997	FAIRWEATHER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vanessa L. Ford	1645				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 26 D	<u>ecember 2001</u> .					
2a) ☐ This action is FINAL . 2b) ☐ This	This action is FINAL. 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-11 and 13-18 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-11 and 13-18 are subject to restriction	wn from consideration.					
Application Papers	_					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) ate Patent Application (PTO-152)				

Application/Control Number: 10/018,997

Art Unit: 1645

Lack of Unity

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Election/Restrictions

Group I Claims 1-4, 9-10 and 16 are drawn to a polypeptide, pharmaceutical composition and vaccine.

Group II Claims 5-8 are drawn to a polynucleotide, vector and host cell.

Group III Claim 11 is drawn of a method of treating or preventing or reducing the susceptibility of *C. tetani* infection comprising administering a polypeptide.

Group IV Claim 13 is drawn of a method of producing antibodies.

Group V Claim 14 is drawn to a method of treating *C. tetani* infection comprising administering antibodies.

Group VI Claim 15 is drawn to a method of reducing the binding affinity.

Group VII Claim 17 is drawn to a vaccine comprising a polynucleotide.

Group VIII Claim 18 is drawn of a method of treating or preventing or reducing the susceptibility of *C. tetani* infection comprising administering a polynucleotide.

Application/Control Number: 10/018,997

Art Unit: 1645

of invention.

The inventions listed as Groups I-III do not relate to a single general inventive 2. concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature of Group I is a polypeptide with a reduction in neuron and ganglioside binding as well as a reduction in the ability to undergo retrograde transport. The special technical feature lacks novelty under PCT Article 33(2) as anticipated by Shapiro et al (The Journal of Biological Chemisty, Vo. 272, No. 48, November 28, 1997, p. 30380-30386). Shapiro et al also teach a peptide of the tetanus fragment C (amino acids 858-1305) that has reduced neuron and ganglioside binding (page 30385). Therefore, the polypeptide of the prior art has the same characteristics as the claimed polypeptide. Group I is the main invention in this application and it lacks novelty, therefore the other claims are not so linked by a special technical feature within the meaning of PCT Rule 13.2 so as to form single inventive concept. Inasmuch as, the technical feature does not define contribution over the art, it is not "special" within the meaning of PCT Rule 13.2. Consequently, Groups I-VIII lack unity

Application/Control Number: 10/018,997

Art Unit: 1645

Conclusion

3. Any inquiry of the general nature or relating to the status of this general application should be directed to the Group receptionist whose telephone number is (703) 308–0196.

Papers relating to this application may be submitted to Technology Center 1600, Group 1640 by facsimile transmission. The faxing of such papers must conform with the notice published in the Office Gazette, 1096 OG 30 (November 15, 1989). Should applicant wish to FAX a response, the current FAX number for the Group 1600 is (703) 872-9306.

Any inquiry concerning this communication from the examiner should be directed to Vanessa L. Ford, whose telephone number is (571) 272-0857. The examiner can normally be reached on Monday – Friday from 9:00 AM to 6:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette Smith, can be reached at (571) 272-0864.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov./. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vanessa L. Ford

Biotechnology Patent Examiner

April 7, 2005

LYNETTE R. F. SMITH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600